

Coruscating Dome 96

by Arya Akhavan (April 2014)

Angles for R.I. = 1.520

162 + 24 girdles = 186 facets

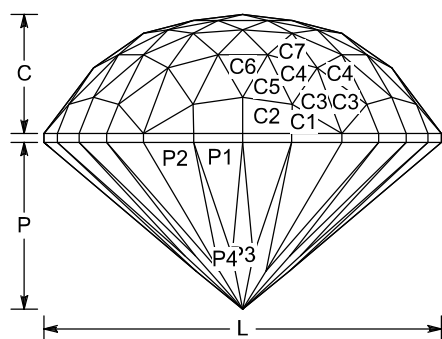
6-fold, mirror-image symmetry

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L/W = 1.053

P/W = 0.441 C/W = 0.315

Vol./W³ = 0.287



PAVILION

P1	41.63°	01-15-17-31-33-47-49-63-65-79-81-95	Cut to centerpoint.
P2	41.10°	04-12-20-28-36-44-52-60-68-76-84-92	Meet at culet.
G1	90.00°	01-15-17-31-33-47-49-63-65-79-81-95	Set stone size.
G2	90.00°	04-12-20-28-36-44-52-60-68-76-84-92	Level girdle.
P3	41.42°	96-16-32-48-64-80	Meet P1, G1
P4	41.00°	03-13-19-29-35-45-51-61-67-77-83-93	Meet P1, P2, G1, G2; culet

CROWN

C1	66.04°	04-12-20-28-36-44-52-60-68-76-84-92	Set girdle width.
C2	65.15°	01-15-17-31-33-47-49-63-65-79-81-95	Level girdle.
C3	52.79°	07-09-23-25-39-41-55-57-71-73-87-89	Meet G2, C1
C4	45.98°	04-12-20-28-36-44-52-60-68-76-84-92	Meet C1, C2, C3
C5	47.25°	02-14-18-30-34-46-50-62-66-78-82-94	Meet C1, C2, C3, C4
C6	44.74°	96-16-32-48-64-80	Meet C2, C5
C7	34.99°	06-10-22-26-38-42-54-58-70-74-86-90	Meet C3, C4; C4, C5, C6
C8	28.24°	02-14-18-30-34-46-50-62-66-78-82-94	Meet C4, C5, C6, C7
C9	29.81°	96-16-32-48-64-80	Meet C4, C5, C6, C7, C8
C10	15.15°	04-12-20-28-36-44-52-60-68-76-84-92	Meet C7, C8; C8, C9
C11	12.47°	96-16-32-48-64-80	Meet C8, C9, C10
C12	8.00°	96-16-32-48-64-80	Meet C10, C11

I think I might have just gone overboard on this one... I find myself physically unable to add more triangles to this design. Looks absolutely stunning in any material with an RI of 1.52 or higher, and does some really strange things with dispersion and RIs above 2.00. THE ULTIMATE TRIANGLE CHECKERBOARD!
Suggested size = 20-50 mm. Yes, that big.

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